

LPD FROGGY PARTS LIST FOR MAIN BOARD					
Item	Qty	Reference	Part Name	Tandy Part No.	Description
Diodes:					
1	1	D1	FDLL4148	SDSI09005-	DIODE, GENERAL PURPOSE
2	1	D2	FDLL4148	SDSI09005-	DIODE, GENERAL PURPOSE
3	1	D3	EL209-2HGW	SL00800410	Dual Color LED, Red & Green
Transistors:					
4	1	Q1	2SA812/M6	ST2A812-M6	PNP Transistor, SOT-23
5	1	Q2	2SA812/M6	ST2A812-M6	PNP Transistor, SOT-23
6	1	Q3	2SA812/M6	ST2A812-M6	PNP Transistor, SOT-23
7	1	Q4	DTA124EK	STDA124EK-	PNP Transistor w/ built-in Resistor, SOT-23
8	1	Q5	2SA812/M6	ST2A812-M6	PNP Transistor, SOT-23
9	1	Q6	2SC1623/L6	STTC1623L6	NPN Transistor, SOT-23
10	1	Q7	DTA124EK	STDA124EK-	PNP Transistor w/ built-in Resistor, SOT-23
11	1	Q8	DTA124EK	STDA124EK-	PNP Transistor w/ built-in Resistor, SOT-23
ICs:					
12	1	U1	KA324D	SIKA324D--	Quad Low Power Operation Amplifier (14 SOP)
13	1	U2	NJM2070M	SINM2070M-	Low Voltage Power Amplifier
14	1	U3	XC62FP2002PR	SIXC62FP-2	2V REGULATOR
15	1	U4	XC6371A401PR	SIXC6371A-	4V DC-DC CONVERTER
16	1	U5	MB89191RPF	SIMB89191-	MICROCONTROLLER
17	1	U6	XC61AN2202PR	SIXC61AN--	2.2V VOLTAGE DETECTOR
Capacitors:					
18	1	C1	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
19	1	C2	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
20	1	C3	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
21	1	C4	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
22	1	C5	GRM39X7R332K50	CJNEK332KM	Chip Cap., 0603, 3.3nF +/- 10%
23	1	C6	GRM39X7R332K50	CJNEK332KM	Chip Cap., 0603, 3.3nF +/- 10%
24	1	C7	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
25	1	C8	GRM39X7R333K50	CJNEK333KM	Chip Cap., 0603, 33nF +/- 10%
26	1	C9	ECEA1CKS100	CELAE106M4	Electrolytic Cap., 4mm x 5mm, 10uF +/- 20%, 16V
27	1	C10	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
28	1	C11	ECEA1AKS101	CELAE107M*	Electrolytic Cap., 6.3mm x 5mm, 100uF +/- 20%, 10V
29	1	C12	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
30	1	C13	ECEA1AKS101	CELAE107M*	Electrolytic Cap., 6.3mm x 5mm, 100uF +/- 20%, 10V
31	1	C14	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
32	1	C15	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
33	1	C16	ECEA1CKS100	CELAE106M4	Electrolytic Cap., 4mm x 5mm, 10uF +/- 20%, 16V
34	1	C17	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
35	1	C18	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
36	1	C19	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
37	1	C20	GRM39X7R153K50	CJNEK153KM	Chip Cap., 0603, 15nF +/- 10%
38	1	C21	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
39	1	C22	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
40	1	C23	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
41	1	C24			NOT USED
42	1	C25	GRM39COG330J50	CBNAK330JM	Chip Cap., 0603, 33p +/- 5%
43	1	C26	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
44	1	C27	GRM39Y5V105Z10	CJNPE105ZM	Chip Cap., 0603, 1u +80/-20%
45	1	C28	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
46	1	C29	GRM39X7R681K50	CJNEK681KM	Chip Cap., 0603, 680p +/- 10%
47	1	C30	GRM39X7R222K50	CJNEK222KM	Chip Cap., 0603, 2.2n +/- 10%
48	1	C31	GRM39COG121J50	CBNAK121JM	Chip Cap., 0603, 120p +/- 5%
49	1	C32	GRM40Y5V225Z16	CJVP225ZM	Chip Cap., 0805, 2.2u +80/-20%, 16V
50	1	C33	GRM39COG121J50	CBNAK121JM	Chip Cap., 0603, 120p +/- 5%
51	1	C34	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
52	1	C35	GRM40Y5V225Z16	CJVP225ZM	Chip Cap., 0805, 2.2u +80/-20%, 16V
53	1	C36	GRM39COG471J50	CBNAK471JM	Chip Cap., 0603, 470p +/- 5%
54	1	C37	GRM39Y5V104Z16	CBNAK471JM	Chip Cap., 0603, 0.1u +80/-20%
55	1	C38	ECEA1AKS330	CELAE336M4	Electrolytic Cap., 4mm x 5mm, 33uF +/- 20%, 10V
56	1	C39	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
57	1	C40	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
58	1	C41	ECEA1AKS330	CELAE336M4	Electrolytic Cap., 4mm x 5mm, 33uF +/- 20%, 10V
59	1	C42	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%

60	1	C43	ECEA1AKS330	CELAE336M4	Electrolytic Cap., 4mm x 5mm, 33uF +/- 20%, 10V
61	1	C44	ECEA1AKS330	CELAE336M4	Electrolytic Cap., 4mm x 5mm, 33uF +/- 20%, 10V
62	1	C45	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
63	1	C46	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
64	1	C47	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
65	1	C48	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
66	1	C49	GRM39Y5V224Z10	CJNPE224ZM	Chip Cap., 0603, 0.22u +80/-20%
67	1	C50	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
68	1	C51	GRM39Y5V105Z10	CJNPE105ZM	Chip Cap., 0603, 1u +80/-20%
69	1	C52	GRM39COG560J50	CBNAK560JM	Chip Cap., 0603, 56p +/- 5%
70	1	C53	GRM39COG560J50	CBNAK560JM	Chip Cap., 0603, 56p +/- 5%
71	1	C54	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
Resistors:					
72	1	R1	MCR03EZHZJ274	RG0SN274JG	0603 SMD RES, 270K +/- 5%
73	1	R2	MCR03EZHZJ153	RG0SN153JG	0603 SMD RES, 15K +/- 5%
74	1	R3	MCR03EZHZJ114	RG0SN114JG	0603 SMD RES, 110K +/- 5%
75	1	R4	MCR03EZHZ000	RG0SN000	0603 SMD RES, 0 OHM
76	1	R5	MCR03EZHZJ333	RG0SN333JG	0603 SMD RES, 33K +/- 5%
77	1	R6	MCR03EZHZJ103	RG0SN103JG	0603 SMD RES, 10K +/- 5%
78	1	R7	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
79	1	R8	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
80	1	R9	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
81	1	R10	MCR03EZHZJ100	RG0SN100JG	0603 SMD RES, 10 +/- 5%
82	1	R11	MCR03EZHZJ333	RG0SN333JG	0603 SMD RES, 33K +/- 5%
83	1	R12	MCR03EZHZJ682	RG0SN682JG	0603 SMD RES, 6.8K +/- 5%
84	1	R13	MCR03EZHZJ223	RG0SN223JG	0603 SMD RES, 22K +/- 5%
85	1	R14	MCR03EZHZJ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
86	1	R15	MCR03EZHZJ153	RG0SN153JG	0603 SMD RES, 15K +/- 5%
87	1	R16	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
88	1	R17	MCR03EZHZJ222	RG0SN222JG	0603 SMD RES, 2.2K +/- 5%
89	1	R18	MCR03EZHZJ224	RG0SN224JG	0603 SMD RES, 220K +/- 5%
90	1	R19	MCR03EZHZJ224	RG0SN224JG	0603 SMD RES, 220K +/- 5%
91	1	R20	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
92	1	R21	MCR03EZHZJ394	RG0SN394JG	0603 SMD RES, 390K +/- 5%
93	1	R22	MCR03EZHZJ184	RG0SN184JG	0603 SMD RES, 180K +/- 5%
94	1	R23	MCR03EZHZJ224	RG0SN224JG	0603 SMD RES, 220K +/- 5%
95	1	R24	MCR03EZHZJ334	RG0SN334JG	0603 SMD RES, 330K +/- 5%
96	1	R25	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
97	1	R26	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
98	1	R27	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
99	1	R28	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
100	1	R29	MCR03EZHZJ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
101	1	R30	MCR03EZHZJ393	RG0SN393JG	0603 SMD RES, 39K +/- 5%
102	1	R31	MCR03EZHZJ203	RG0SN203JG	0603 SMD RES, 20K +/- 5%
103	1	R32	MCR03EZHZJ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
104	1	R33	MCR03EZHZJ103	RG0SN103JG	0603 SMD RES, 10K +/- 5%
105	1	R34	MCR03EZHZJ394	RG0SN394JG	0603 SMD RES, 390K +/- 5%
106	1	R35	MCR03EZHZJ222	RG0SN222JG	0603 SMD RES, 2.2K +/- 5%
107	1	R36	MCR03EZHZJ223	RG0SN223JG	0603 SMD RES, 22K +/- 5%
108	1	R37	MCR03EZHZJ105	RG0SN105JG	0603 SMD RES, 1M +/- 5%
109	1	R38	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
110	1	R39	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
111	1	R40	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
112	1	R41	MCR03EZHZJ101	RG0SN101JG	0603 SMD RES, 100 +/- 5%
113	1	R42	MCR03EZHZJ391	RG0SN391JG	0603 SMD RES, 390 +/- 5%
114	1	R43	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
115	1	R44	MCR03EZHZJ182	RG0SN182JG	0603 SMD RES, 1.8K +/- 5%
116	1	R45	MCR03EZHZJ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
117	1	R46	MCR03EZHZJ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
118	1	R47	MCR03EZHZJ153	RG0SN153JG	0603 SMD RES, 15K +/- 5%
119	1	VR1	POZ3AN-1-503N	177580100A	Variable Resistor (top), 50K
Inductors:					
120	1	L1	LK1608 2R2M	142580390A	Chip Coil, 0603, 2.2uH +/- 20%
121	1	L2	CM5-121	142580430A	SMD SHIELDED COIL, CM-5, 120uH +/- 10%
Resonator:					
122	1	X1	CSA4.00MG	391180130A	Ceramic Resonator, 4MHz
Mech. Parts:					

123	1	SW1	DIC-RDF02-008	187089140A	TACT SWITCH /V
124	1	SW2	8-TDF-0W3-180	180889370A	DOME SWITCH
125	1	SW3	RV121S-33-012J-A50K	171389040B	Rotary Volume, 50K
126	1	SW4	DIC-RDF02-008	187089140A	TACT SWITCH /V
127	1	J1	EJM-3-2235-01	191280110A	Speaker Jack, 3.5mm mono earphone jack
128	1	J2	EJM-3-2625	191780010A	Mic Jack, 2.5mm mono earphone jack
129	1	H1	05 2206SA-04L/PNT	194089120A	4-PIN SOCKET (SINGLE)
130	1	H2	05 2206SA-02L/PNT	194089130A	2-PIN SOCKET (SINGLE)
131	1	H3	05 2206SA-02L/PNT	194089130A	2-PIN SOCKET (SINGLE)
132	1		PCB	200080050A	FR-4, 2-LAYER, 1.6mm THICKNESS, GOLD PLATED
133	1	SPK1	MM2841N4WT	271089590A	Speaker, 28mm, mylar cone, 0.5W, 4ohms
134	1	MIC1	EM-926A	273189210A	Condenser Microphone Omnidirection, Slim Type
LPD FROGGY PARTS LIST RECEIVER BOARD					
Ite	Qty	Reference	Part Name	Tandy Part No.	Description
Diodes:					
1	1	D201	MA111	SDSI800230	RF Switching diode, S Mini package
2	1	D202	FDLL4148	SDSI09005	Diode, General purpose
3	1	D203	MA77	SDSI800240	RF Switching diode
Transistors:					
4	1	Q201	2SC3356/R25	ST2C3356--	RF Transistor, SOT-23
5	1	Q202	2SC3356/R25	ST2C3356--	RF Transistor, SOT-23
6	1	Q203	2SC3356/R25	ST2C3356--	RF Transistor, SOT-23
7	1	Q204	2SC3356/R25	ST2C3356--	RF Transistor, SOT-23
8	1	Q205	2SC2404-C	STSC2404-C	RF Transistor, SOT-23
ICs:					
9	1	U201	MC3361CD	SIMC3361CD	Low Power Narrowband FM IF
Capacitors:					
10	1	C201	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
11	1	C202	GRM39COG020C50	CBNAK2R0CM	Chip Cap., 0603, 2p +/- 0.25p
12	1	C203	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
13	1	C204	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
14	1	C205	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
15	1	C206	GRM39COG07R5C50	CBNAK7R5CM	Chip Cap., 0603, 7.5p +/- 0.25p
16	1	C207	GRM39COG040C50	CBNAK4R0CM	Chip Cap., 0603, 4p +/- 0.25p
17	1	C208	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
18	1	C209	GRM39COG100D50	CBNAK100DM	Chip Cap., 0603, 10p +/- 0.5p
19	1	C210			NOT USED
20	1	C211	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
21	1	C212	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
22	1	C213			NOT USED
23	1	C214	GRM39COG220J50	CBNAK220JM	Chip Cap., 0603, 22p +/- 5%
24	1	C215	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
25	1	C216	GRM39COG030C50	CBNAK030CM	Chip Cap., 0603, 3p +/- 0.25p
26	1	C217	GRM39COG0R5C50	CBNAK0R5CM	Chip Cap., 0603, 0.5p +/- 0.25p
27	1	C218	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
28	1	C219	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
29	1	C220			NOT USED
30	1	C221	GRM39COG470J50	CBNAK470JM	Chip Cap., 0603, 47p +/- 5%
31	1	C222	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
32	1	C223	GRM39COG0R5C50	CBNAK0R5CM	Chip Cap., 0603, 0.5p +/- 0.25p
33	1	C224	GRM39COG120J50	CBNAK120JM	Chip Cap., 0603, 12p +/- 5%
34	1	C225	GRM39COG220J50	CBNAK220JM	Chip Cap., 0603, 22p +/- 5%
35	1	C226	GRM39COG220J50	CBNAK220JM	Chip Cap., 0603, 22p +/- 5%
36	1	C227	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
37	1	C228	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
38	1	C229	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
39	1	C230	ECEA1CKS100	CELAG106M4	Electrolytic Cap., 4mm x 5mm, 10uF +/- 20%, 16V
40	1	C231	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
41	1	C232	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
42	1	C233	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
43	1	C234	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%

44	1	C235	ECEA1HKS010	CELA105M4	Electrolytic Cap., 4mm x 5mm, 1uF +/- 20%, 50V
45	1	C236	GRM39X7R472K50	CJNEK472KM	Chip Cap., 0603, 4.7nF +/- 10%
46	1	C237	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +/- 80/-20%
47	1	C238	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
48	1	C239	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
49	1	C240			NOT USED
50	1	C241	GRM39COG101J50	CBNAK101JM	Chip Cap., 0603, 100p +/- 5%
51	1	C242			NOT USED
52	1	CV201	JTC03E200	154089160A	Trim Cap., 5-20pF
Inductors:					
53	1	L201	HK1608 12NJ	142580190A	Chip Coil, 0603, 12nH +/- 5%
54	1	L202	HK1608 5N6S	142580400A	Chip Coil, 0603, 5.6nH +/- 5%
55	1	L203	LK1608 2R2M	142580390A	Chip Coil, 0603, 2.2uH +/- 20%
56	1	L204	HK1608 12NJ	142580190A	Chip Coil, 0603, 12nH +/- 5%
57	1	L205	HK1608 8N2J	142580170A	Chip Coil, 0603, 8.2nH +/- 5%
58	1	L206	K5M4A1295N	143189750A	6mm x 6mm Quadrature Coil
59	1	L207	LK1608 R33M	142580350A	Chip Coil, 0603, 330nH +/- 20%
60	1	L208	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
61	1	L209	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
62	1	L210			Short Circuit
Resistors:					
63	1	R201	MCR03EZHZ153	RG0SN153JG	0603 SMD RES, 15K +/- 5%
64	1	R202	MCR03EZHZ431	RG0SN431JG	0603 SMD RES, 430 +/- 5%
65	1	R203	MCR03EZHZ331	RG0SN331JG	0603 SMD RES, 330 +/- 5%
66	1	R204	MCR03EZHZ683	RG0SN683JG	0603 SMD RES, 68K +/- 5%
67	1	R205	MCR03EZHZ122	RG0SN122JG	0603 SMD RES, 1.2K +/- 5%
68	1	R206	MCR03EZHZ220	RG0SN220JG	0603 SMD RES, 22 +/- 5%
69	1	R207	MCR03EZHZ333	RG0SN333JG	0603 SMD RES, 33K +/- 5%
70	1	R208	MCR03EZHZ101	RG0SN101JG	0603 SMD RES, 100 +/- 5%
71	1	R209	MCR03EZHZ683	RG0SN683JG	0603 SMD RES, 68K +/- 5%
72	1	R210			NOT USED
73	1	R211	MCR03EZHZ393	RG0SN393JG	0603 SMD RES, 39K +/- 5%
74	1	R212	MCR03EZHZ122	RG0SN122JG	0603 SMD RES, 1.2K +/- 5%
75	1	R213	MCR03EZHZ202	RG0SN202JG	0603 SMD RES, 2K +/- 5%
76	1	R214	MCR03EZHZ911	RG0SN911JG	0603 SMD RES, 910 +/- 5%
77	1	R215	MCR03EZHZ184	RG0SN184JG	0603 SMD RES, 180K +/- 5%
78	1	R216	MCR03EZHZ682	RG0SN682JG	0603 SMD RES, 6.8K +/- 5%
79	1	R217	MCR03EZHZ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
80	1	R218	MCR03EZHZ183	RG0SN183JG	0603 SMD RES, 18K +/- 5%
81	1	R219	MCR03EZHZ183	RG0SN183JG	0603 SMD RES, 18K +/- 5%
82	1	R220	MCR03EZHZ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
83	1	R221	MCR03EZHZ152	RG0SN152JG	0603 SMD RES, 1.5K +/- 5%
84	1	R222	MCR03EZHZ332	RG0SN332JG	0603 SMD RES, 3.3K +/- 5%
85	1	R223	MCR03EZHZ000	RG0SN000	0603 SMD RES, 0 OHM
86	1	R224	MCR03EZHZ332	RG0SN332JG	0603 SMD RES, 3.3K +/- 5%
87	1	R225	MCR18EZH000	RG0EC000JG	1206 SMD RES, 0 OHM
88	1	R226	MCR18EZH000	RG0EC000JG	1206 SMD RES, 0 OHM
89	1	VR201	POZ3AN-1-103N-T00	177580070A	Variable Resistor (top), 10K
Crystals:					
90	1	X201	XTAL, 68.89583 MHz	39108040A	UM-5, 68.89583 MHz, +/- 5ppm, CL = 10pF
91	1	X202	XTAL, 20.945MHz	391080690A	AT-38, 20.945MHz, +/- 25ppm, CL = 16pF
Filters:					
92	1	FIL201	DF434R2	392080040A	SAW Filter, 434 MHz
93	1	FIL202	MF21R	392080020A	UM-5, 21.4 MHz Crystal Filter with insulator
94	1	FIL203	CLF-M-6D	392980070A	Ceramic Filter, 455KHz +/- 10KHz
Mech. Parts:					
95	1	H201	05 2206PA-04L/PNT	194189500A	4 Pin Header (Single), 1.27 mm Pitch
96	1	H202	05 2206PA-02L/PNT	194189510A	2 Pin Header (Single), 1.27 mm Pitch
97	1	H203	05 2206PA-02L/PNT	194189510A	2 Pin Header (Single), 1.27 mm Pitch

98	1	ANT201		112089180A	85 mm Antenna Wire, 1Cx20AWG, Bare Annealed Copper
99	1		PCB	200080070A	FR4, 2-layer, 0.8mm thickness, gold plated
100	1			473189130A	Shielding cover, 0.1mm Thickness, Zinc Plated, w/ insulator
LPD FROGGY PARTS LIST FOR TRANSCEIVER BOARD					
Item	Qty	Reference	Part Name	Tandy Part No.	Description
Diodes:					
1	1	D101	MA77	SDSI800240	Switching diode
2	1	VD101	1SV270	SDVC800121	Varactor diode, 1SV270
3	1	VD102	1SV270	SDVC800121	Varactor diode, 1SV270
4	1	VD103	1SV270	SDVC800121	Varactor diode, 1SV270
5	1	VD104	1SV270	SDVC800121	Varactor diode, 1SV270
Transistors:					
6	1	Q101	2SC3356/R25	ST2C3356--	RF Transistor SOT23
7	1	Q102	2SC3356/R25	ST2C3356--	RF Transistor SOT23
8	1	Q103	2SC3356/R25	ST2C3356--	RF Transistor SOT23
Capacitors:					
9	1	C101	GRM39Y5V154Z16	CJNPG154ZM	Chip Cap., 0603, 0.15u +80/-20%
10	1	C102	GRM42-6F335Z16	CJWPG335ZM	Chip Cap., 1206, 3.3u +80/-20%
11	1	C103	GRM39Y5V104Z16	CJNPG104ZM	Chip Cap., 0603, 0.1u +80/-20%
12	1	C104	GRM39X7R102K50	CJNEK102KM	Chip Cap., 0603, 1000p +/- 10%
13	1	C105	GRM39COG270J50	CBNAK270JM	Chip Cap., 0603, 27p +/-5%
14	1	C106	GRM39COG020C50	CBNAK2R0CM	Chip Cap., 0603, 2p +/- 0.25p
15	1	C107	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
16	1	C108	GRM39COG100D50	CBNAK100DM	Chip Cap., 0603, 10p +/- 0.5p
17	1	C109	GRM39COG020C50	CBNAK2R0CM	Chip Cap., 0603, 2p +/- 0.25p
18	1	C110	GRM39COG330J50	CBNAK330JM	Chip Cap., 0603, 33p +/- 5%
19	1	C111	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
20	1	C112	GRM39COG100D50	CBNAK100DM	Chip Cap., 0603, 10p +/- 0.5p
21	1	C113	GRM39COG100D50	CBNAK100DM	Chip Cap., 0603, 10p +/- 0.5p
22	1	C114	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
23	1	C115	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
24	1	C116	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
25	1	C117	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
26	1	C118	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
27	1	C119	GRM39COG330J50	CBNAK330JM	Chip Cap., 0603, 33p +/- 5%
28	1	C120	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
29	1	C121	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
30	1	C122	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
31	1	C123	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
32	1	C124	GRM39COG8R2C50	CBNAK8R2CM	Chip Cap., 0603, 8.2p +/- 0.25p
33	1	C125	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
34	1	C126	GRM39X7R103K50	CJNEK103KM	Chip Cap., 0603, 10nF +/- 10%
35	1	C127	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
36	1	C128	GRM39COG040C50	CBNAK4R0CM	Chip Cap., 0603, 4p +/- 0.25p
37	1	C129	GRM39COG270J50	CBNAK270JM	Chip Cap., 0603, 27p +/- 5%
38	1	C130	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
39	1	C131	GRM39COG9R1C50	CBNAK9R1CM	Chip Cap., 0603, 9.1p +/- 0.25p
40	1	C132	GRM39COG030C50	CBNAK3R0CM	Chip Cap., 0603, 3p +/- 0.25p
41	1	C133	GRM39COG070D50	CBNAK7R0DM	Chip Cap., 0603, 7p +/- 0.25p
42	1	CV101	JTC03E200	154089160A	Trim Cap., 5-20pF
Inductors:					
43	1	L101	PE-1008CX821K	142580420A	Chip Coil, 1008 size, 820nH +/- 10%
44	1	L102	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
45	1	L103	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
46	1	L104	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
47	1	L105	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
48	1	L106	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
49	1	L107	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
50	1	L108	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T

51	1	L109	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
52	1	L110	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
53	1	L111	LK1608 R68M	142580340A	Chip Coil, 0603, 680nH +/- 20%
54	1	L112	LK1608 R33M	142580350A	Chip Coil, 0603, 330nH +/- 20%
55	1	L113	Air Coil, 4T	141189100A	ER0.45 x 1.0 x 4T
Resistors:					
56	1	R101	MCR03EZHZJ512	RG0SN512JG	0603 SMD RES, 5.1K +/- 5%
57	1	R102	MCR03EZHZJ512	RG0SN512JG	0603 SMD RES, 5.1K +/- 5%
58	1	R103	MCR03EZHZJ104	RG0SN104JG	0603 SMD RES, 100K +/- 5%
59	1	R104	MCR03EZHZJ683	RG0SN683JG	0603 SMD RES, 68K +/- 5%
60	1	R105	MCR03EZHZJ100	RG0SN100JG	0603 SMD RES, 10 +/- 5%
61	1	R106	MCR03EZHZJ821	RG0SN821JG	0603 SMD RES, 820 +/- 5%
62	1	R107	MCR03EZHZJ101	RG0SN101JG	0603 SMD RES, 100 +/- 5%
63	1	R108	MCR03EZHZJ101	RG0SN101JG	0603 SMD RES, 100 +/- 5%
64	1	R109	MCR03EZHZJ752	RG0SN752JG	0603 SMD RES, 7.5K +/- 5%
65	1	R110	MCR03EZHZJ102	RG0SN102JG	0603 SMD RES, 1K +/- 5%
66	1	R111	MCR03EZHZJ122	RG0SN122JG	0603 SMD RES, 1.2K +/- 5%
67	1	R112	MCR03EZHZJ100	RG0SN100JG	0603 SMD RES, 10 +/- 5%
Crystal:					
68	1	X101	XTAL, 72.4625MHz	391080730A	UM-5, 72.4625MHz, +/-5ppm, CL = series resonance
Mech. Parts:					
69	1		PCB	200080060A	FR4, 2-layer, 0.8mm thickness, gold plated